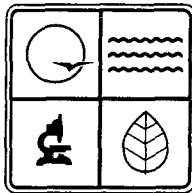


STATE OF MISSOURI  
DEPARTMENT OF NATURAL RESOURCES  
MISSOURI AIR CONSERVATION COMMISSION



**PERMIT BOOK**

## PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: **01 2 0 0 6 - 0 1 7** Project Number: **2005-11-025**

Owner: **Quest Manufacturing, Inc.**

Owner's Address: **735 Evergreen Road, Strafford, MO 65757**

Installation Name: **Quest Manufacturing, Inc.**

Installation Address: **735 Evergreen Road, Strafford, MO 65757**

Location Information: **Webster County, S31, T30, R19W**

Application for Authority to Construct was made for:

Installation of an ASME tank paint booth (EP02). This review was conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

☒ Standard Conditions (on reverse) are applicable to this permit.

☐ Standard Conditions (on reverse) and Special Conditions (listed as attachments starting on page 2) are applicable to this permit.

JAN 27 2006

EFFECTIVE DATE

DIRECTOR OR DESIGNEE

DEPARTMENT OF NATURAL RESOURCES

## STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

**You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review.** Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available not more than 60 days but at least 30 days in advance of this date. Also, you must notify the Department of Natural Resources Regional Office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of this permit and permit review shall be kept at the installation address and shall be made available to Department of Natural Resources' personnel upon request.

You may appeal this permit or any of the listed Special Conditions as provided in RSMo 643.075. If you choose to appeal, the Air Pollution Control Program must receive your written declaration within 30 days of receipt of this permit.

If you choose not to appeal, this certificate, the project review, your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Department of Natural Resources has established the Outreach and Assistance Center to help in completing future applications or fielding complaints about the permitting process. You are invited to contact them at 1-800-361-4827 or (573) 526-6627, or in writing addressed to Outreach and Assistance Center, P.O. Box 176, Jefferson City, MO 65102-0176.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit at (573) 751-4817. If you prefer to write, please address your correspondence to the Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176, attention Construction Permit Unit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE  
SECTION (5) REVIEW

Project Number: 2005-11-025  
Installation ID Number: 225-0033  
Permit Number:

Quest Manufacturing, Inc.  
735 Evergreen Road  
Strafford, MO 65757

Complete: November 14, 2005  
Reviewed: December 6, 2005

Parent Company:  
Quest Manufacturing, Inc.  
735 Evergreen Road  
Strafford, MO 65757

Webster County, S31, T30, R19W

REVIEW SUMMARY

- Quest Manufacturing, Inc. has applied for authority to construct an ASME tank paint booth (EP02).
- Hazardous Air Pollutant (HAP) emissions are expected from the proposed equipment. HAPs of concern from this process are toluene, ethylbenzene, and xylene.
- None of the New Source Performance Standards (NSPS) apply to the proposed equipment.
- The Maximum Achievable Control Technology (MACT) standard, 40 CFR Part 63, Subpart M, *National Emission Standards for Surface Coating of Miscellaneous Metal Parts and Products* does not apply to the proposed equipment since the installation is not a major source for HAPs.
- A fabric filter is used to control the particulate matter less than ten (10) microns in diameter (PM<sub>10</sub>) emissions from the equipment in this permit.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of all criteria pollutants are below de minimis levels.
- This installation is located in Webster County, an attainment area for all criteria air pollutants.
- This installation is not on the List of Named Installations [10 CSR 10-6.020(3)(B), Table 2].

- Ambient air quality modeling was not performed since potential emissions of the application are below de minimis levels.
- Emissions testing is not required for the equipment.
- A Basic Operating Permit application is required for this installation within 30 days of equipment startup.
- Approval of this permit is recommended without special conditions.

## INSTALLATION DESCRIPTION

Quest Manufacturing, Inc. is located in Strafford, Missouri and manufactures metal air tanks. The facility is a minor source for construction permits. An operating permit application was received and it was determined not to be required. However, according to Missouri State Rule 10 CSR 10-6.065, *Operating Permits* "This rule shall apply to all incinerators". An operating permit is required as EP03 Burn-off Oven classifies as an incinerator. The following permits have been issued to Quest Manufacturing, Inc. from the Air Pollution Control Program.

Table 1: Permit issued to Quest Manufacturing, Inc.

Permit Number	Description
0893-011	Permit spray booths currently in operation
0895-022	Installation of a propane-fired hook burn-off oven

## PROJECT DESCRIPTION

Quest Manufacturing, Inc. has applied for authority to construct an ASME tank paint booth (EP02). The paint booth (EP02) has a maximum design rate of 0.73 gallons per hour. The paint booth will be equipped with a fabric filter to control particulate matter less than ten (10) microns in diameter. Emission point 2 existed as a previous paint booth, which has since been removed. Table 2 lists the emission points currently at the facility.

Table 2: Emission Points

Emission Point	Emission Unit
EP01	Bake Oven (cure ovens for powder coat lines)
*EP02	Paint Booth
EP03	Bake Oven (burn-off oven for paint hooks)
FUG1	Space Heaters (heaters for work areas)
FUG2	Welding Operations (gas shielded welding operations)

\* Indicates projects currently permitted.

## EMISSIONS/CONTROLS EVALUATION

The emissions and control efficiencies used in this analysis were obtained from mass balance calculations using provided material safety data sheets (MSDS). A transfer efficiency of 65% was used to calculate PM<sub>10</sub> emissions. Existing actual emissions are from the 2004 Emissions Inventory Questionnaire (EIQ). Potential emissions of the application represent the potential of the new equipment, assuming continuous operation (8760 hours per year). The following table provides an emissions summary for this project.

Table 3: Emissions Summary (tons per year)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions <sup>1</sup>	Existing Actual Emissions (2004 EIQ)	Potential Emissions of the Application	EP02 Conditioned Potential
PM <sub>10</sub>	15.0	0.04	0.00	4.74 <sup>2</sup>	N/A
SO <sub>x</sub>	40.0	0.00	0.00	0.00	N/A
NO <sub>x</sub>	40.0	1.14	0.23	0.00	N/A
VOC	40.0	5.29	5.01	15.75	N/A
CO	100.0	0.16	0.04	0.00	N/A
HAPs	25.0	3.61	0.00	3.66	N/A

N/A = Not Applicable

<sup>1</sup> Existing potential Emissions are from Operating Permit determination project number 225-0033-020.

<sup>2</sup> PM<sub>10</sub> potential emissions of the application are uncontrolled. Actual emissions will be considerably lower.

## PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of all criteria pollutants are below de minimis levels.

## APPLICABLE REQUIREMENTS

Quest Manufacturing, Inc. shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved. For a complete list of applicable requirements for your installation, please consult your operating permit.

### GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110

The emission fee is the amount established by the Missouri Air Conservation Commission annually under Missouri Air Law 643.079(1). Submission of an Emissions Inventory Questionnaire (EIQ) is required April 1 for the previous year's emissions.

- *Operating Permits*, 10 CSR 10-6.065
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-3.090

#### SPECIFIC REQUIREMENTS

- *Restriction of Emission of Particulate Matter From Industrial Processes*, 10 CSR 10-6.400

#### STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, I recommend this permit be granted without special conditions.

\_\_\_\_\_  
Michael Sanchez  
Environmental Engineer

\_\_\_\_\_  
Date

#### PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated November 4, 2005, received November 7, 2005, designating Quest Manufacturing, Inc. as the owner and operator of the installation.
- U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*, Fifth Edition.
- Southwest Regional Office Site Survey, dated November 21, 2005.
- Material Safety Data Sheets (MSDS)